

Viking Seminar Information Sheet

Seminar (Event) Title:	Advanced Applications of Fire Protection Systems
Seminar Description:	Through discussion, activities and interactive labs, this seminar will explore the components and operation of more complex water-based fire protection systems with a focus on pre-action, deluge, and foam fire sprinkler systems. Topics covered will include system applications, configurations, and components.
Duration (Days):	2 days
Number of Modules:	7
Total Instructional Minutes:	660 (11 hours) <i>Instructional minutes do not include the facility tour, breaks, or lunch totaling ~3 hours.</i>
Seminar Format(s):	Lecture, demonstration, in-class and hands-on activity
Participant Materials:	Sprinkler Guides, Data Sheets and Digital Tools
Learning Outcomes:	Upon completion of this seminar the attendee will be able to: <ol style="list-style-type: none">1. Identify the components of Deluge/Pre-action Systems and describe their function2. Recognize the benefits of the Viking SureFire System and explain the system functions3. Compare the benefits of the various types of Flow Control Systems4. Recognize the benefits of the Viking Fire Cycle System and explain the system functions5. Discuss the applications and type of Foam Systems
Assessment Method(s):	Activity Participation

TITLE: MODULE 1:**DELUGE SYSTEMS****Duration:** (90 min)**Learning Outcomes:** At the conclusion of this module, the participant will be able to:

1. Identify the application of Deluge Systems
2. Describe the different types of Deluge Systems
3. Recognize the components of Deluge Systems
4. Explain the operation and restoration of Deluge Systems

Delivery Methods: Lecture, demonstration, in-class and hands-on activity**Activity Descriptions:** Data Sheet Reading, Tripping and resetting valves**Assessment Method:** Activity Participation**TITLE: MODULE 2:****VFR400 MULTI HAZARD RELEASE PANEL****Duration:** (60 min)**Learning Outcomes:** At the conclusion of this module, the participant will be able to:

1. Identify the application of the release panel
2. Describe the importance of the correct program
3. Explain the location of the associated program wiring diagrams

Delivery Methods: Lecture, demonstration, and hands-on activity**Activity Descriptions:** Programming panels**Assessment Method(s):** Activity Participation**TITLE: MODULE 3:****PRE-ACTION SYSTEMS****Duration:** (210min)**Learning Outcomes:** At the conclusion of this module, the participant will be able to:

4. Identify the application of Pre-action Systems
5. Describe the different types of Pre-action Systems
6. Recognize the components of Pre-action Systems
7. Explain the operation and restoration of Pre-action Systems

8. Recognize the benefits of the Viking SureFire Systems, Vacuum Technology, and explain the system functions

Delivery Methods: Lecture, demonstration, and hands-on activity

Activity Descriptions: Tripping and resetting valves

Assessment Method(s): Activity Participation

TITLE: MODULE 4: DAY 1 REVIEW ACTIVITY

Duration: (60 min)

Learning Outcomes: During this module, participant will be able to:

1. Identify and explain the characteristics of the component they were provided

Delivery Methods: Guided Discussion

Activity Descriptions: N/A

Assessment Method(s): Activity Participation

TITLE: MODULE 5: FLOW CONTROL SYSTEMS

Duration: (150 min)

Learning Outcomes: At the conclusion of this module, participant will be able to:

2. Identify the application of Flow Control Systems
3. Describe the different types of Flow Control Systems
4. Recognize the components of Flow Control Systems
5. Explain the operation and restoration of Flow Control Systems
6. Recognize the benefits of the Viking Fire Cycle System and explain the system functions

Delivery Methods: Demonstration w/Activity

Activity Descriptions: Riser Lab

Assessment Method(s): Activity Participation

TITLE: MODULE 6: **VIKING FOAM SYSTEM**

Duration: (30 min)

Learning Outcomes: At the conclusion of this module the participant will be able to:

1. Explain the application of foam systems
2. Discuss foam system terminology
3. Identify foam systems components (concentrate, proportioning and delivery)

Delivery Methods: Lecture & Demonstration

Activity Descriptions: Videos and Suppression Lab

Assessment Method(s): Activity Participation

TITLE: MODULE 7: **COURSE REVIEW ACTIVITY**

Duration: (60 min)

Learning Outcomes: During this module the participant will be able to:

1. Answer questions within the activity, independently through explanation of associated course subjects.

Delivery Methods: Guided Discussion

Activity Descriptions: N/A

Assessment Method(s): Activity Participation